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® Araldite Casting Resin System

**Araldite®**                      **CW 2243-2L Blue 100 pbw**  
**Aradur®**                        **HY 2966                      11 pbw**

**Optimally filled casting system for processing and curing at room temperature or slightly higher temperatures**

*replaces CW 2243 L Blue*

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Voltage regulators, suppressor chokes, proximity switches, ferrite core transformers

**Applications**

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Casting / Vacuum casting

**Processing**

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Flexible castings with good thermal ageing stability  
Good thermal shock resistance  
Flammability: UL 94 approval (V-0 for 6 mm )  
NF F 16 – 102 classified

**Properties**

# Product data

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(Guideline values)

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## Modified, solvent free epoxy resin with inorganic filler

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<b>Araldite CW 2243-2L</b>	Viscosity	at 25°C	mPa s	ca. 10 000
	Specific gravity	at 25°C	g/cm <sup>3</sup>	1.63
	Flash point		ISO 1523 °C	>177
	Filler content		%	59
	As supplied form		Highly viscous, filled beige-liquid	
	Hazardous decomposition products		Carbon monoxide, carbon dioxide and other toxic gases and vapours if burned	
	Disposal		Regular procedures approved by national and/or local authorities	

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## Formulated, low viscosity polyamine hardener

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<b>Aradur HY 2966</b>	Viscosity	at 25°C	mPa s	ca. 500
	Specific gravity	at 25°C	g/cm <sup>3</sup>	0.97
	Flash point		ISO 1523 °C	> 200
	As supplied form		Clear, pale yellow liquid	
	Hazardous decomposition products		Carbon monoxide, carbon dioxide and other toxic gases and vapours if burned	
	Disposal		Regular procedures approved by national and/or local authorities	

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## Storage

Store the components in a dry place at 18-25°C, in tightly sealed original containers. Under these conditions, the shelf life will correspond to the expiry date stated on the label. After this date, the product may be processed only after reanalysis. Partly emptied containers should be tightly closed immediately after use.

For information on waste disposal and hazardous products of decomposition in the event of a fire, refer to the Material Safety Data Sheets (MSDS) for these particular products.

# Processing

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Because of the tendency to sedimentation of the filler, pre-filled components in principle require stirring before removal from the original containers. To avoid errors in dosage this step is especially important when removing only part of the contents.

Highly-filled components are heated to 40-60°C in the original container (e.g. overnight in an oven), to facilitate stirring and removal.

In preparing the casting mixture, the hardener component is thoroughly stirred into the preferably to 40-50°C preheated resin component. Brief degassing of the casting mix under a vacuum of 5 to 10 mbar improves homogeneity as well as the dielectric properties of the casting.

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<b>Mix ratio</b>	Araldite CW 2243 -2L	parts by weight	100
	Aradur HY 2966	parts by weight	11

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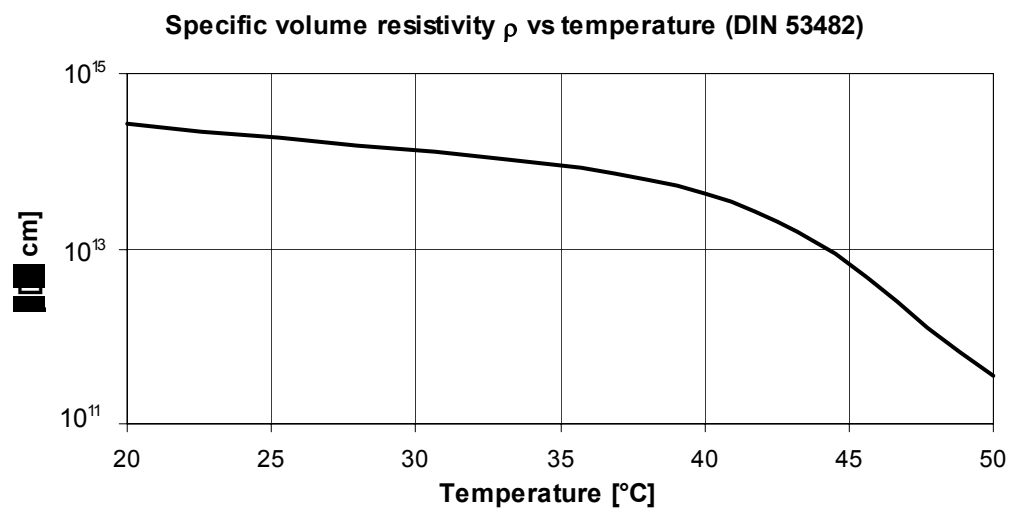
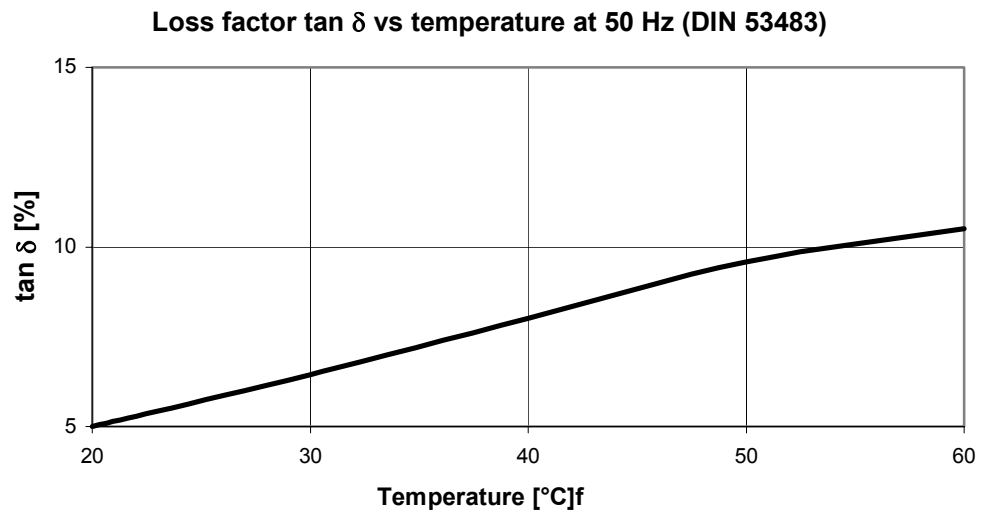
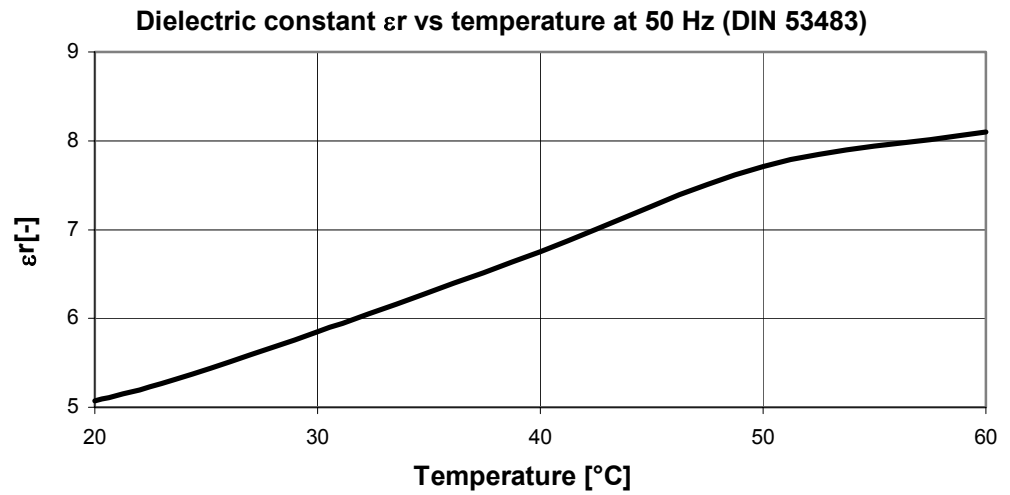
<b>Processing data</b> (Guideline values)	Initial viscosity (Hoeppler)	mPa s	at 25°C	ca. 4200
			at 40°C	ca. 1630
	Pot life to 15,000 mPa s (Hoeppler)	min	at 25°C	ca. 40
			at 40°C	ca. 25
	Minimum curing time	h	at 25°C	≥ 24
			at 40°C	12
			at 60°C	6

# Properties

Guideline values determined on standard test specimens cured for 24 h/25°C+6 h/60°C

Colour of castings					blue
Specific gravity	at 25°C	DIN 55 990	g/cm <sup>3</sup>		1.58
Shore D hardness (4 mm plate)	at 25°C	DIN 53 505			70
Glass transition temperature derived from torsion modulus			°C		37
Martens deflection temperature		DIN 53 458	°C		<25
Flexural strength					
max. bending stress	at 25°C	ISO 178	MPa		24
surface strain (failure)	at 25°C	ISO 178	%		>15
Impact strength	at 25°C	ISO 179	kJ/m <sup>2</sup>		12
Compressive strength					
max. tensile stress	at 25°C	ISO 604	MPa		31
Tensile strength					
max. tensile stress	at 25°C	ISO 527	MPa		16
elongation at break	at 25°C	ISO 527	%		15
Elastic modulus from tensile test	at 25°C	ISO 527	MPa		960
Combustibility		UL 94	grade		V-0 (6 mm)
Railway rolling stock – fire behaviour	NF F 16-102		Class		F 1 / I 3
Water absorption					
10 days	at 23°C	ISO 62	%		0.25
30 min	at 100°C	ISO 62	%		0.5
Coefficient of linear thermal expansion	at 22-71°C	DIN 53 752	ppm/K		111.
	at 22-140°C	DIN 53 752	ppm/K		117.
Thermal conductivity	at 18°C	DIN 52 612	W/mK		0.80
Electrolytic corrosion		DIN 53 489	grade		AN/1.2
Tracking resistance		IEC 60112			CTI>600
Electric strength					
20 s value for 2 mm plate (50 Hz)	at 23°C	IEC 60243	kV/mm		15

# Properties



# Industrial hygiene

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Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding Safety Data Sheets and the brochure "Hygienic precautions for handling plastics products".

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## Handling precautions

Safety precautions at workplace:	
protective clothing	yes
gloves	essential
arm protectors	recommended when skin contact likely
goggles/safety glasses	yes
respirator/dust mask	recommended
Skin protection	
before starting work	Apply barrier cream to exposed skin
after washing	Apply barrier or nourishing cream
Cleansing of contaminated skin	Dab off with absorbent paper, wash with warm water and alkali-free soap, then dry with disposable towels. Do not use solvents
Clean shop requirements	Cover workbenches, etc. with light coloured paper. Use disposable beakers, etc.
Disposal of spillage	Soak up with sawdust or cotton waste and deposit in plastic-lined bin
Ventilation:	
of workshop	Renew air 3 to 5 times an hour
of workplace	Exhaust fans. Operatives should avoid inhaling vapours.

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## First Aid

Contamination of the **eyes** by resin, hardener or casting mix should be treated immediately by flushing with clean, running water for 10 to 15 minutes. A doctor should then be consulted.

Material smeared or splashed on the **skin** should be dabbed off, and the contaminated area then washed and treated with a cleansing cream (see above). A doctor should be consulted in the event of severe irritation or burns. Contaminated clothing should be changed immediately.

Anyone taken ill after **inhaling** vapours should be moved out of doors immediately. In all cases of doubt call for medical assistance.

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## Note

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